

Title (en)
AN UNINTERRUPTIBLE POWER SUPPLY DEVICE

Title (de)
VORRICHTUNG ZUR UNTERBRECHUNGSFREIEN STROMVERSORGUNG

Title (fr)
DISPOSITIF D'ALIMENTATION ÉLECTRIQUE SANS COUPURE

Publication
EP 4184748 A1 20230524 (EN)

Application
EP 21209565 A 20211122

Priority
EP 21209565 A 20211122

Abstract (en)
An uninterruptible power supply device (100) is configured to provide a rated electrical power to an electrical load (L%), and includes: a rectifier module (110, 115), electrically coupled to an electrical power grid; an inverter module (I), electrically coupled to the rectifier module and configured to provide the rated electrical power to the load; a battery converter module (BC), electrically coupled to the rectifier module and the inverter module and configured to receive electrical power from the rectifier module and/or configured to provide electrical power to the inverter module; wherein the rectifier module is configured to receive electrical power from the electrical power grid and to provide electrical power to the electrical power grid; and wherein the rectifier module has a higher rated power as the rated electrical power of the the inverter module such as to enable the uninterruptible power supply device to provide stabilization support to the electrical power grid.

IPC 8 full level
H02J 9/06 (2006.01); **H02J 3/32** (2006.01)

CPC (source: CN EP US)
H02J 3/32 (2013.01 - CN EP US); **H02J 7/0068** (2013.01 - CN); **H02J 7/02** (2013.01 - US); **H02J 9/061** (2013.01 - US); **H02J 9/062** (2013.01 - CN EP); **H02M 7/04** (2013.01 - CN); **H02M 7/44** (2013.01 - CN); **H02J 2207/20** (2020.01 - US)

Citation (search report)
• [XYI] US 2019067986 A1 20190228 - HAJ-MAHARSI MOHAMED Y [SA], et al
• [XI] EP 3591798 A1 20200108 - LSIS CO LTD [KR]
• [XI] US 2019280492 A1 20190912 - HAJ-MAHARSI MOHAMED Y [SA], et al
• [Y] WO 2020236826 A1 20201126 - UNIV NORTH CAROLINA CHARLOTTE [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4184748 A1 20230524; CN 116154943 A 20230523; US 12119704 B2 20241015; US 2023163623 A1 20230525

DOCDB simple family (application)
EP 21209565 A 20211122; CN 202211458559 A 20221121; US 202217991254 A 20221121